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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/569,169	02/27/2006	Markus Hame	60,469-255;5304	8609
64779 CARLSON G	7590 03/02/201 ASKEY & OLDS	0	EXAM	IINER
400 W MAPLE STE 350			SINGH, KAVEL	
BIRMINGHA	M, MI 48009		ART UNIT PAPER NUMBER	
			3651	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# 10/569,169 HAME ET AL. Office Action Summary

Application No.

Applicant(s)

Office Action Gammary	Examiner	Art Unit	
	KAVEL P. SINGH	3651	
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ac	dress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the macroman statutory period we  Any reply received by the Office later than three months after the mailing  earned patent term adjustment. See 37 CFR 1.70(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tin  till apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 07 Ja	nuary 2010.		
	action is non-final.		
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the	e merits is
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-26 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	vn from consideration		
5) Claim(s) is/are allowed.	m nom consideration.		
6)⊠ Claim(s) <u>1-26</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers	·		
9)☐ The specification is objected to by the Examiner			
10) The drawing(s) filed on is/are: a) acce		=vaminar	
Applicant may not request that any objection to the o			
Replacement drawing sheet(s) including the correcti			ED 1 121/d\
11) The oath or declaration is objected to by the Ex			
	anniner. Note the attached Office	ACTION OF IONIT P	10-102.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		ı-(d) or (f).	
1. ☐ Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents			
3. Copies of the certified copies of the prior	•	ed in this National	Stage
application from the International Bureau			
* See the attached detailed Office action for a list of	of the certified copies not receive	d.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(e) (FTO/SE/00)	Paper No(s)/Mail Da 5) Notice of Informal P		
Paper No(s)/Mail Date	6) Other:	- A STATE OF THE S	

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#### DETAILED ACTION

### Response to Arguments

Applicant's arguments with respect to claims 1 and 7 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 1 is rejected under 35 U.S.C. 101 because the claimed invention is not supported by either a specific and substantial asserted utility or a well established utility.

A software program (the phrase determining whether selected wheels is not tied to the conveyor) and is not patentable subject matter

Claim1 also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific and substantial asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-5,7,8,11,13-15,18-20,2425, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kraft U.S. Patent 4,397,096 in view of Joosten U.S. Patent No. 6,112,166.

Claim 1, Kraft teaches having at least one drive member (40,44) that follows a path around a plurality of wheels (38,58, sprocket wheels) C3 L63-65, comprising: determining whether selected wheels (38,58, sprocket wheels) C3 L63-65 rotate at the same speed by using the rotary encoder (7,8) of Joosten. It would be obvious of one of ordinary skill to use the monitoring device of Joosten into the invention of Kraft in order to add additional safety to the conveyor.

Claim 2, Kraft does not teach as Joosten teaches activating a brake (C4 L13-15 Fig. 4) responsive to determining that the wheels (38,58, sprocket wheels C3 L63-65 of Kraft) rotate at a different speed (see claim 1 the detection of the conveyor mechanism). It would be obvious to one of ordinary skill to use a brake activation of Joosten into the invention of Kraft in order to add additional safety to the conveyor.

Claim 3, Kraft teaches there are at least two drive members (44,46) each associated with a deflection wheel (38,58, sprocket wheels) C3 L63-65 and the method includes determining whether the deflection wheels (38,58, sprocket wheels) C3 L63-65 rotate at the same speed by using the rotary encoder (7,8) of Joosten. It would be obvious to one of ordinary skill to use the monitoring device of Joosten into the invention of Kraft in order to add additional safety to the conveyor.

Claim 4, Kraft teaches there are two drive members (44,46) each associated with a drive wheel (See Fig. 1) and a deflection wheel (38,58, sprocket wheels) C3 L63-65, the

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drive wheels (Fig. 1) synchronously rotating (via the chain), and the method includes determining whether either deflection wheel 38,58 rotates at the same speed as the drive wheels (via 7,8 of Joosten). It would be obvious of one of ordinary skill to use the monitoring device of Saito into the invention of Kraft in order to add additional safety to the conveyor.

Claim 5, Kraft teaches the member (44,46) is associated with a drive wheel (Fig. 1) and a deflection wheel (38,58, sprocket wheels) C3 L63-65 and the method includes determining whether the deflection wheel (38,58) rotates at the same speed as the drive wheel (Fig. 1) by using the rotary encoder (7,8) of Joosten. It would be obvious to one of ordinary skill to use the monitoring device of Joosten into the invention of Kraft in order to add additional safety to the conveyor.

Claims 6 and 16, Joosten teaches a rotating member (11,13) with each of the selected wheels (C3 L53-55/ 38,53 of Kraft) such that the rotating members (11,13) rotate at the same speed as the associated wheels (C3 L53-55/ 38,53 of Kraft), and determining when at least one of the rotating members (11,13) moves axially responsive to relative rotation between the selected wheels C3 L50-56. It would be obvious to one of ordinary skill to use rotating members that change position around each other in order to be able to monitor the system.

Claim 7, Kraft teaches a plurality of drive wheels (Fig. 1); a corresponding plurality of deflection wheels (38,58, sprocket wheels) C3 L63-65; a drive member (44,46) associated with each drive wheel (Fig. 1), each drive member (44,46) following a path around the associated drive wheel (44a,44b) and at least one corresponding deflection

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wheel (48a,48b); and a monitor device (7,8 of Joosten) associated with selected ones of the wheels (38,58, sprocket wheels) C3 L63-65 that provides an indication of relative rotation between the selected wheels. It would be obvious to one of ordinary skill to use the monitoring device of Joosten into the invention of Kraft in order to add additional safety to the conveyor.

Claims 8,15,18, and 19, Kraft does not teach as Joosten teaches the monitor device (7,8) includes a first rotating member (11) coupled to rotate with a first one of the selected wheels (C3 L53-55 of Joosten /38,58, sprocket wheels C3 L63-65 of Kraft) and a second rotating member (13 of Joosten) coupled to rotate with a second one of the selected wheels (C3 L53-55 of Joosten /38,58 Kraft), the first and second rotating members (11,13 of C3 L53-55 of Joosten) moving relative to each other responsive to relative rotation between the selected wheels (C3 L53-55 of Joosten /38,58, sprocket wheels) C3 L50-55. It would be obvious to one of ordinary skill to use the rotating members of Joosten into the invention of Kraft in order to allow ease of rotation of the driven and deflection wheel.

Claim 11, Joosten teaches one of the rotating members (11) is axially fixed and the other rotating member (13) is biased into a first axial position and wherein relative rotation between the rotating members (11,13) causes the other rotating member (11,13) to move axially against the bias C3 L50-55. It would be obvious to one of ordinary skill to use the rotating members of Joosten into the invention of Kraft in order to allow ease of rotation of the driven and deflection wheel.

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Claims 13 and 14, Joosten teaches a brake actuator (C4 L13-15 Fig. 4) associated with at least one of the rotating members 11,13, the actuator being operative responsive to axial movement of at least one of the rotating members (11,13) (see claim 1 of Joosten). It would be obvious to one of ordinary skill to use the rotating members of Joosten into the invention of Kraft in order to allow ease of rotation of the driven and deflection wheel.

Claim 17, Joosten two selected deflection wheels (C3 L53-55/ 38,53 of Kraft) that each have an associated second rotating member (11,13). It would be obvious to one of ordinary skill to use rotating members that change position around each other in order to be able to monitor the system.

Claim 20, Joosten teaches a first rotating member (11) for rotating at the same speed

as a first selected wheel (38, 58 of Kraft); a second rotating member (13) for rotating at the same speed as a second selected wheel (C3 L53-55 of Joosten /38,58, sprocket wheels C3 L63-65 of Kraft), the first and second rotating members (11,13) changing position relative to each other responsive to relative rotation between the wheels (C3 L56-60 Fig. 2). It would be obvious to one of ordinary skill to use rotating members that change position around each other in order to be able to monitor the system.

Claim 24, Kraft teaches a step chain 30 associated with a plurality of steps (of 12) and wherein drive member (44) comprises a belt (C3 L62-65) between each drive wheel (of 44) and step chain (30) Fig. 1.

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Claim 25, Kraft does not teach as Joosten teaches an indication of a condition of at least one drive member (44 of Kraft) responsive to the determining (7,8) (C3 L29-35). Claim 26, Kraft does not teach as Joosten teaches positioning a monitor device (1,2,3) between the selected wheels (C3 L18-20) and using the monitor device for the determining. It would be obvious to one of ordinary skill to use a monitoring device as taught by Joosten into the invention of Kraft to ensure the safety for the passengers of the conveyor.

Claims 9,10,12, and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kraft U.S. Patent 4,397,096 in view of Joosten U.S. Patent No. 6,112,166 in view of Reinsma U.S. Patent 3,854,345.11,13), but does not teach as Reinsma teaches bushings (22) having engaging faces (12) that cooperate to cause axial movement of at least one of the bushings responsive to relative rotation between the bushings (C2 L55-60). It would have been obvious to one of ordinary skill in the art at the time of the invention to use a monitor system to use bushings to engage faces during movement as taught by Reinsma into the invention of Kraft to reduce the amount of noise produced from the system.

Claims 12 and 23, Joosten teaches rotating members 11.13, does not teach as Reinsma teaches a spring (30) that biases the other rotating member (14) into the first axial position (C3 L47-50). It would have been obvious to one of ordinary skill in the art at the time of the invention to use a monitor system to use springs to align the rotating members during movement as taught by Reinsma into the invention of Kraft to maintain the alignment and reduce wear.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ms. Kavel P. Singh whose telephone number is (571) 272-2362. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on (571) 272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KPS

/Gene Crawford/ Supervisory Patent Examiner, Art Unit 3651